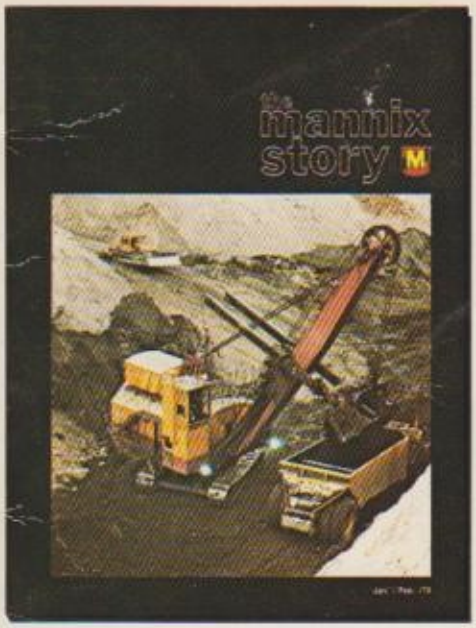
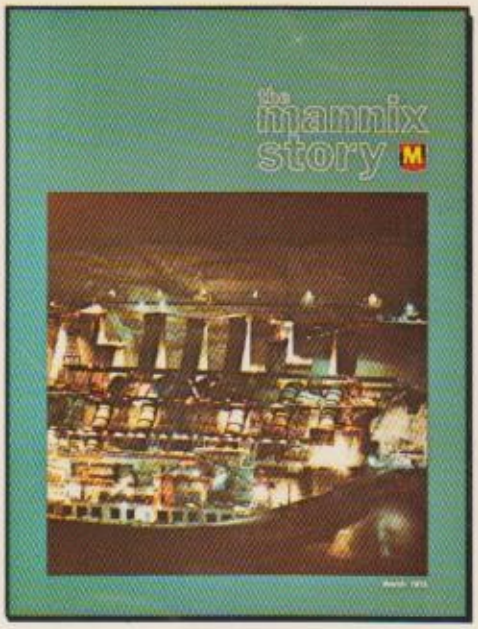
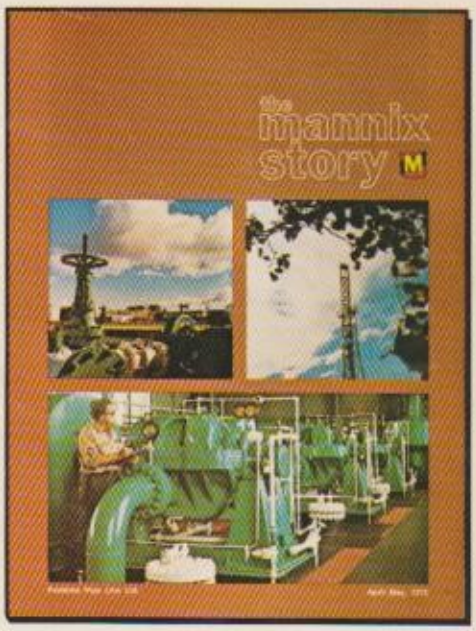
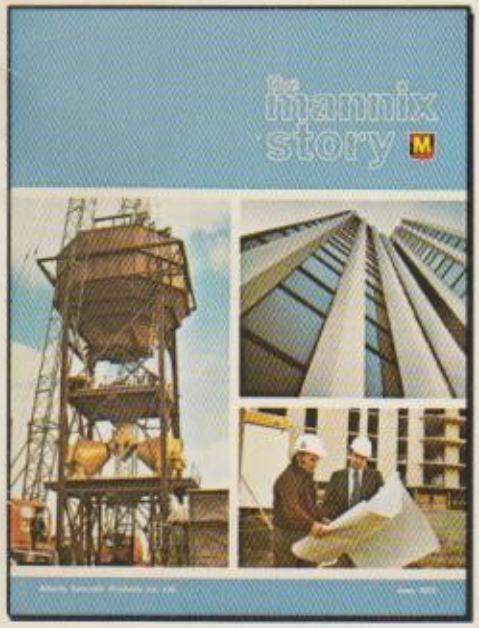
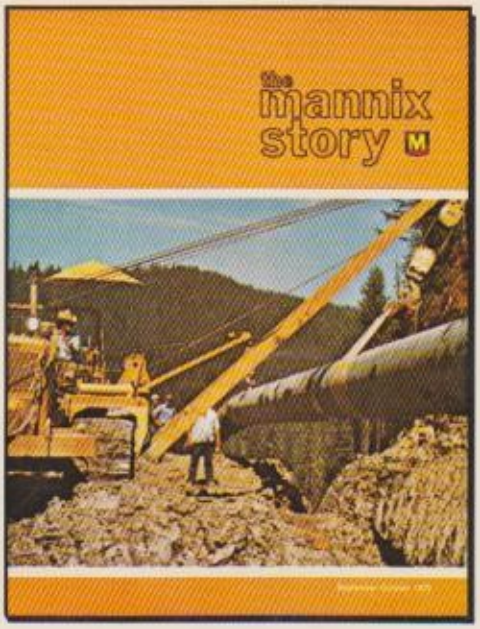
the mannix story

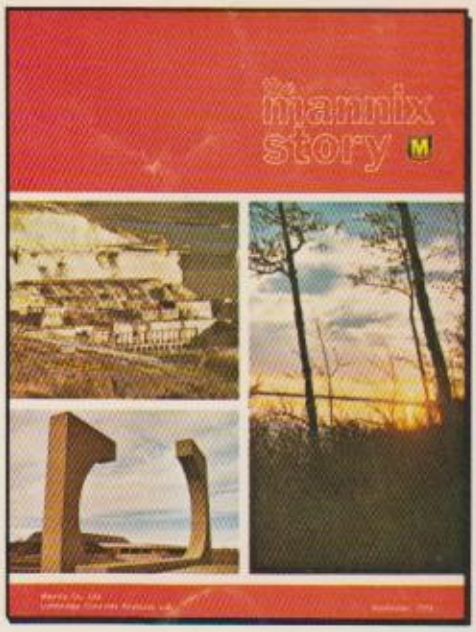






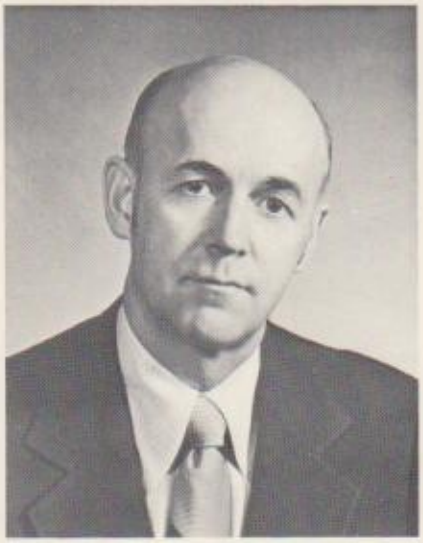






DECEMBER 1973

Message from Management



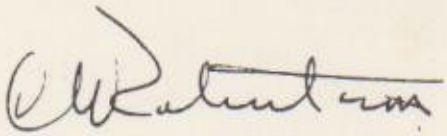
C. L. ROBERTSON
President
Mannix Co. Ltd.

The year end is important and significant to us. We gather annually at the Superintendents' Conference to exchange ideas with a view to improving our company. We also get together and meet socially to enjoy each other's company and take a little time for relaxation and fun.

This year has been marked by growth. That means individual growth which has brought each of us the realization of greater opportunities and responsibilities, with their accompanying challenges to be met and overcome.

For all of us 1974 calls for concentrated effort and hard work to continue the type of construction we undertake and have the reputation for providing. It means careful planning, dealing honestly and wisely, and carefully assessing and taking advantage of the future opportunities available to us.

Our most valuable asset and strength are those people who are loyal, dedicated and interested in the company. My sincere thanks to all of you, along with the wish that you and your families will enjoy a happy and successful 1974.



the mannix story

Vol. 21 December, 1973, No. 8

in this issue

Conference '73
Safety Awards
Ladies Luncheon
Long Service
Children's Party
Annual Banquet

Front Cover

Reproductions of 1973 Mannix Story covers reflect progress and activity that were features of every company in the Mannix group through the year.

Back Cover

Candid shots of the people behind the scenes — men, women and children who make up the character of the company and provide the real meaning for work and play alike.

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Photographer: F. C. Sheppard

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The Many Faces of the Supers' Conference

Monica Hubler registers guests. Below C. J. Abbott, R. W. Carter, T. E. Ewing and Daryl Wilson.

One-quarter century ago and for some years after, the Annual Superintendent's Conference lasted a week and was an important pause in the year's work. The 1973 Conference at the Palliser Hotel, in view of increasing pressures on the industry, was even more essential than in the past. As the result of the intensity of current project activity and the acceleration of winter work, the program was compressed into the day of December 20 and the following morning. Conference Chairmen for each half day were R. F. C. Marriott, P. J. Quinton and K. F. Randall respectively.

In spite of its short duration, the many aspects of the program were met with interest and enthusiasm. A high attendance included more than 30 (introduced by President C. L. Robertson during his welcome) who were attending for the first time. A shortage of representatives for some of the major jobs gave delegates added incentive to absorb and later communicate to others, a wealth of information.

The objective outlined by Mr. Robertson — to provide two-way instruction, to learn by talking to each other, and to understand the problems that must be dealt with — sums up the end result of the various sessions. To set the stage, he reviewed many of the known opportunities for future work in Canada. "The potential is there . . . our purpose is to develop ourselves and expand present experience to allow

H. N. Yeomans
Vice-President & General Manager

Bob McNeill
Radio Dept.

Doug Salt
Data Centre

Al Reilly
Mannix Shop

Ed Ward
Railroad Div.

Dave Parry
Aquitaine Project

Howard Tidswell
Secretary & General Counsel

Mo Korol
Mica Project

us to grow with that potential. Our products are the new facilities we leave behind us — our strength is the people who complete them."

Addressing the group, H. N. Yeomans commented, "You people and those who work for you, have accomplished the largest volume of work — some $85 million — in the company's 75-year history . . . we are both pleased and grateful for your efforts." The Vice-President and General Manager of Mannix Co. went on to review the projects that made up the year's work, and in some cases contributed to the record carryover for 1974.

All divisions had an active year. The Heavy Construction Division was involved with dyke building in the Canmore area of Alberta, and surveillance of extensive dykework previously done near Churchill Falls, Labrador. Major projects included the Mica Underground Powerhouse, the Mount Wright Iron Ore Concentrator Plant, the Grand Coulee Powerhouse in Washington, the Jenpeg Power Facilities, and the Long Spruce Generating Station. All of these will be completed in from one to four year's time.

General Contracts Division work covered by Mr. Yeomans included Boston Bar Rockbolting for the C.N.R., trackwork management and design for Aquitaine, extension of the Firestone Plant, and commencement of Manitoba Hydro's South Bay Channel (a two year project). He also reviewed the Mining, Railroad and Pipeline Divisions' activity — in the tar sands and coal mining, trackwork in Ontario, Alberta and B.C., and pipeline construction between Chilliwack and Fort Nelson, British Columbia.

Guest speaker Tony Cashman (left), System Historian for A.G.T. and author of several books, outlines telecommunication growth.

The afternoon of the first day included legal advice and discussion on the subject of negligence by W. H. H. Tidswell. This was followed by first-hand news on the two current projects. Substituting for K. G. Cline's presentation on South Bay Channel, Henning Jensen described work for G.C.O.S. since 1967 as involving huge material moving capability — nothing glamorous. Including overburden removal, highway and dyke construction, some 90,000,000 cubic yards of material have been handled by Mannix General Contracts people in the Fort McMurray area.

M. Korol, standing in for Project Manager Dale Andersen, showed a series of slides with accompanying statistics to highlight the magnitude of the specialized construction behind a million yards of excavation and 200,000 cubic yards of concrete placement — part of the underground powerhouse and associated tunnels for the B.C. Hydro and Power Authority development at Mica. In addition to showing the variety of heavy drilling, loading

Fred P. Mannix reviews achievements of the companies.

Barry Brown
Pipeline Div.

Ed Volk
Data Centre

Mel Lunn
Data Centre

John Myers
Mica Project

Ken Miller
Boston Bar Project

and hauling equipment at work, slides showed that just preparing the camp for winter was a major operation. Each trailer is protected by a second roof, supported by I-beams and steel posts to withstand snow loads that reach 150 pounds per square foot in the Mica Creek area.

Speakers the following morning included Safety Director R. E. Smith, who presented safety awards for the Mica project and the West-coast pipeline job in B.C., and Mr. Tony Cashman of Alberta Government Telephones. Mr. Cashman noted that Mannix was a big contributor to the telephone business as a client, and held in high esteem in telecommunication circles. His talk revealed many informative and amusing anecdotes as he traced the history of communication from the first telephone line between Edmonton and St. Albert in 1885, through long distance development, to present day sophistication, when we "must communicate what we know about events that have not yet happened."

Left to right, Joe Ham, Jim Mailly, George Krevoshiea, Pete Thalheimer, Gordon Geddes, Roy Binnie and Gaston Desjardin attend discussion session.

Discussion and Recommendation — The Meat of any Conference

Toward the conclusion of the conference, content of discussions were reviewed by C. Thalheimer, B. Kessler, B. Ostermann and H. Tidswell. Largely the result of the three discussion sessions that took place between administration, engineering, mechanical and operating groups, the questions, statements and resolutions arising from these groups will provide the basis for better understanding and long-term improvement during the coming year.

While most of the subject matter was technical or organizational in nature, it also dealt with many of the problems that the company must face today — in common with the rest of Canada. Labour shortages, and the difficulties raised by short supply of energy and materials, make advance planning by our people at every level more vital than ever.

K. F. Randall dealt briefly with major units of equipment and what can be done to minimize the effects of shortages and still uphold performance records. He noted that we are well equipped to handle these problems. Measures can also be taken to improve utilization of people, materials and supplies; maintain equipment to delay costly replacement; encourage training programs; improve advance planning and be alert to new types of equipment available.

As F. P. Mannix provided the conference with an overview of operations in all the companies making up the Mannix group, 1973

Les Sorenson, John Myers, Herb Donaldson and Marc Roy converse during coffee break.

Della McNulty of Personnel explained company benefits to discussion sessions, answered questions and provided a summary for reference purposes.

Fred C. Mannix

was marked in each instance as a record period for either profit, volume, work ability, or a combination of these and other positive factors. The future looks most promising and with your expertise the opportunities are unlimited, he concluded.

Fred C. Mannix also addressed the group briefly, expressing the hope that the organization never got too big to deal in terms of people rather than money. He emphasized the value of learning by experience, and the value of people with integrity and ability who can see opportunities as they arise.

Winding up a successful conference, C. L. Robertson passed on a piece of advice he received many years earlier from the son of the founder. "How hard you work decides what you're going to do. Success depends on hard work and a little luck, but the harder you work the luckier you're going to get."

Conference concludes with comments from Dil Robertson, below.

Safety Awards

R. E. Smith, Safety Director

The control of loss through accidents, whether involving people, property or equipment, is vital to the success of any construction job. Two projects who did an outstanding job in this area were complimented by Safety Director Bob Smith as he presented awards to men from the Westcoast Transmission looping project, below. Unfortunately representatives from the Mica Powerplant project were unable to get away for the presentation at the annual conference.

Pipeline safety awardees: Cueball Morrison, Jerry Wynne, Arnold Holmen, Stu Slack, Jim Staples, Art Mostowich and Jim Thomas. Missing — Bill Snead, Eric Bone and Stan Meadows.

Awards for Mica people went to Jim Peterson, George Usher, Peter Tedesco, Mike Parenteau, Tom Phalan, Eric Jones, Bill Greenhough and Jake Pankratz. MX 625 looks on accident prevention as a continous program that always has room for improvement. They are constantly applying new ideas to increase production wisely and safely, to prevent loss of time from accidents, and to make the project a good, safe place to work. An Accident Prevention Committee, equally represented by management and labour, is an important part of their many-sided safety program.

Suggestion Award

Individuals as well as groups are recognized at Mica. Project Manager Dale Anderson presents award for best Toolbox Meeting suggestion, to miner Glen Carr, at right.

Frauleins, adorned in feathered, multi-colored chapeaus suited to the occasion, swing and sway to the Germanic rythmns of Freddie Bender and accordianist Max Rieberer.

A Touch of Europe for the 'Gasthaus Girls'

Head office and project wives enjoyed a pre-Christmas luncheon at the Gasthaus on December 21. While the men of their collective households were winding up a conference, the ladies were unwinding in their own way.

Kaye Cummings and LaRae Robertson demonstrate the hand action required to milk a cow in time with a mountain yodel.

An appropriate door prize is awarded to Helen Lloyd by hostess Helen Yeomans, left. At right, part of the happy group.

Long Service Awards

SERVED 30 YEARS

Edwin Hanson Harper, better known as Scotty, attained an enviable and admired distinction of long service when he received his 30-year award, in company with Mr. and Mrs. F. P. Mannix, above.

On December 31, his sudden passing shocked his many friends and associates. He is remembered by those who knew him well as one who enjoyed life to the full, a person with a 'heart of gold' and unkind words for no man.

Working in power development, coal, railroad, highway, shop and security capacities, Scotty saw and accepted the many changes that took place in the construction world since his first activity with the company in 1942. He and his friendly presence will be missed by all who knew him.

15 YEARS — l. to r., Walter Schmidt, Jack Bain, Mrs. T. H. France, Fred Schollmaier, Harold Reinhart and (T. H. France, Pembina President).

25 YEARS — l. to r., Jack Bruce, Techman; Bill Wichuk, Ed Woolard, Manalta Coal; Stu Armstrong, (G. J. Mannix), Frank O'Sullivan, Jim Lane, Mannix; Bill Jamieson, Manalta Coal; and (F. P. Mannix).

20 YEARS — l. to r., Bob McNeill, Mannix; Ilene Cosgrove, Manalta Holdings; (F. P. Mannix) and Ed Panchansyn, Manalta Coal.

15 YEARS — George Krevoshie, Mannix; with G. J. Mannix.

15 YEARS — P. G. Clarke, Loram Holdings; and Vic Fabri, Manark Holdings.

10 YEARS — President C. L. Robertson with awardees Bev Ostermann, Elaine Parker and Bob Marriott, all of Mannix Co.

Many Share in Honors for Long Time Service

Project and Christmas schedules being what they are, the long service people who were unable to attend the annual Mannix party were in a surprising minority. In addition to those depicted here, were: John Hooper, Mannix, 25 years; Bob Welsh, Mannix, 15 years; Joe Tonelli and Charles Allan, Mannix, 10 years; Jack Wood, Loram, 10 years; and Joe Kassay Farkas, Techman, 5 years. Other Mannix people who reached the five year mark included Norris Bratt, Barry Brown, Bud Burke, Helmut Colius, Daryl Bellamy, Albert Leblanc John McNeill, Margaret Nuell, Vic Ryhorski, Matt Van Gorp, Wally Wasson, Ed Yurkowski, Paul Slobodian, Frank Sampson, Peter Procinsky, Leonard Reid, Lambert Lindstrom, Lloyd Vacheresse and Mervin Strong.

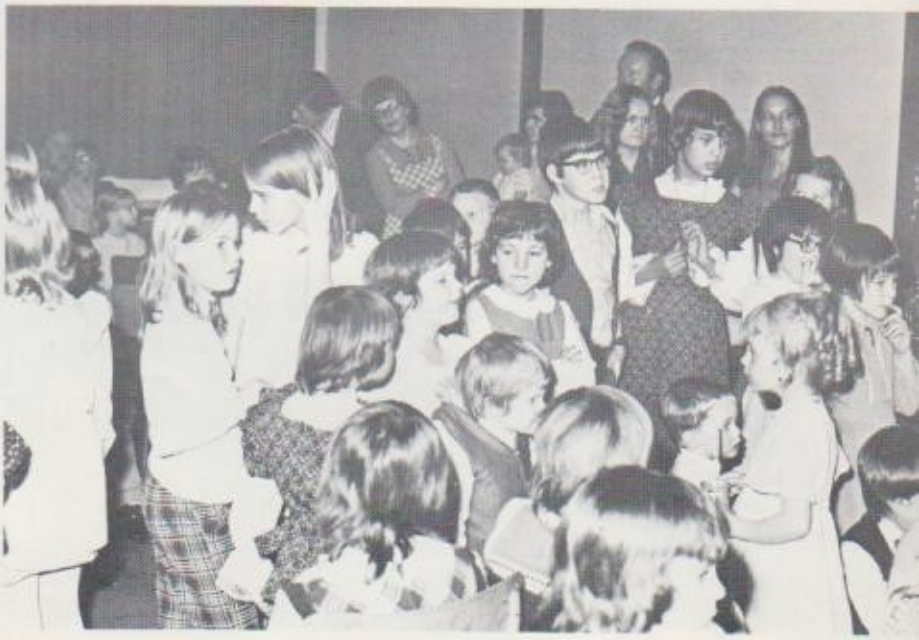
5 YEARS — Attending the Christmas Party were A. R. Cummings, Loram (right) and from Mannix Co. below — back, l. to r., Jim Quinton, Errold Tupper, Jerry Naus, Kurt Grell, Tom Wozny, Bob Grainger, Jai Yang, Wayne Bullock, Arnold Holmen and George Dell, front, l. to r., (C. L. Robertson), Gordon O'Neill, Chico Montrichard, Lucy Madole, Ed Volk, Monica Hubler, Joe Garritsen and Tom Smith.

Happiness Is...

Happiness is a man-to-man talk with Santa.

Guessing what's inside.

Left — security! Below, being part of the crowd is fun too.



If you wish hard enough.

Christmas is for sharing.

Here comes Santa Claus.

SUSAN THOMPSON

...and

Atmosphere of a successful 1973 Mannix Christmas Party was achieved by a photographic crisis — an unscheduled camera accident and a jammed shutter.

Guests were welcomed by the Robertsons and the Mannix's.

Fred C. and Margie.

At left, Errold Tupper, Association President for 1973, presents a seasonal remembrance from employees. Above, line up for buffet had a long and hungry look that was quickly appeased.

on to a Happy New Year

As has been customary, scheduling of the Mannix Christmas Party was arranged to follow the Superintendents' Conference so that as many as possible of the field people and their wives could attend. A total of some 750 persons filled the spacious banquet facilities of the Calgary Inn to enjoy the major opportunity of the year for association and comradeship with each other on a large scale. Along with special recognition to the old-timers of the organization, the capacity gathering was welcomed by members of the Mannix family as the evening got under way.

Dinner music was provided by the McKenzie Accordian Ensemble, who hope to embark soon on an Eastern tour. The young group (aged from 14 to 18 years) includes a son and daughter of Gordon Campbell, Loram Assistant Controller.

Above, a few of the many attractive ladies at the party include Mrs. Thomas, Mrs. Staples, Mrs. Johnson, Mrs. Holmen, Mrs. Morrison and Mrs. Wynne.

Carol and Ron Mannix chat with oldtimer Ora Burggren.

Dancing to the Harold Saklofsky 12-piece band was a fitting way to end the evening. As the scene below bears out, a good many of the nearly 800 guests took full advantage.

The Mannix Directory

Mannix Co. Ltd.

Head Office: 815 - 2nd Street S.W., Calgary, Alberta, Box 2828 Private Branch Exchange 267-5111 (Area Code 403)

		Phone	Area Code
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H. N. Yeomans, Vice-President & General Manager	2008 Glasgow Drive S.W., Calgary	249-5925	403
P. J. Quinton, Manager, Heavy Construction Division	6802 Lowell Court, Calgary	242-0776	403
K. F. Randall, Manager, General Contracts Division	2908 University Place, Calgary	282-3790	403
R. F. C. Marriott, Manager, Pipeline Division	1327 - 75th Avenue S.W., Calgary	252-4050	403
T. Wozny, Manager, Railway Division	812 Acadia Dr. S.E., Calgary	271-6157	403
G. F. Coates, Manager, Equipment Division	20 Walnut Drive S.W., Calgary	249-5837	403
C. Thalheimer, Equipment Operations Manager	10523 Bradbury Drive S.W., Calgary	249-5837	403
B. A. Ostermann, Chief Engineer	4656 - 82nd Street N.W., Calgary	288-6740	403
B. A. Kessler, Manager, Field Administration	1112 Varsity Estate Rise N.W., Calgary	288-6454	403
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P. S. Christensen, Controller	6 Stanley Place, S.W., Calgary	243-1391	403
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L. A. Morrison, Assistant Treasurer	49 Gateway Drive S.W., Calgary	242-4485	403
W. C. Couch, Chief Purchasing Agent	3320 Morley Crescent N.W., Calgary	282-2417	403
T. M. Ewing, Personnel Director	235 - 37th Avenue S.W., Calgary	243-1651	403
R. E. Smith, Safety Director	2839 - 63rd Avenue S.W., Calgary	242-5423	403
Shops and Warehouse: 3201 Ogden Road, Calgary, Alberta		**267-5457**	**403**
After Hours		249-9822 or 266-6643	403
Aviation Facilities: Calgary International Airport, Calgary, Alberta		**277-0717**	**403**
Edmonton Office: 604 Revillon Building, Edmonton, Alberta		**424-8276**	**403**
Vancouver Office: 521 West 8th Avenue, Vancouver, B.C.		**872-8171**	**604**

Projects

Mannix Co. Ltd.

Heavy Construction Division -- Sponsored Contracts

Mount Wright Development Project – (La Cie Mannix (Quebec) Ltee & Associates) Quebec Cartier Mining Company – Earthwork and Concrete Foundations, Mount Wright, Quebec. Project Mgr., V. Lemecha; Asst. Project Mgr., Construction W. Julien; Admin. Mgr., J. R. Mailly. Telephone 418-287-5665. Montreal Purchasing & Expediting Office: Suite 300, 3300 Cavendish Blvd., Montreal, Quebec, E. O. Labrosse Purchasing Agent. Telephone 514-482-7795.

Mica Powerplant – Excavation and Construction of underground powerhouse including penstocks and tailrace tunnels switchyard, roads, and ancillary works. Project Mgr., D. Anderson; Administrative Mgr., M. D. McCarthy; Office Mgr., W. Lee. Telephone 604-834-7355. c/o Mannix Co. Ltd., Box 70, Mica Creek, B.C.

Churchill Falls Dyke Surveillance – Maintain dykes and roads for Churchill Falls (Labrador) Corp. Project Mgr., A. Archibald; Office Mgr., J. Gamble.

Non-Sponsored Contracts

Grand Coulee Third Power Plant – Vinnell-Dravo-Lockheed-Mannix. Construction of Concrete Forebay Dam, Penstocks and Powerhouse and Appurtenant Works for United States Department of the Interior, Bureau of Reclamation. Columbia River at Grand Coulee Dam, Washington, U.S.A. Project Mgr., J. D. Heckart; Office Mgr., H. Ballod.

Long Spruce Generating Station – Pitts-Atlas-Janin-Mannix-B.A.C.M. Construction of earthfill dam and powerhouse for Manitoba Hydro. Address: Gillam, Manitoba. Resident Mgr., B. Buchanan; Project Mgr., E. Deloughery; Project Eng., A. Clements.

Jenpeg Power Facilities – B.A.C.M.-Pitts-Mannix-Janin. Lake Winnipeg regulation, control and generating station for Manitoba Hydro. Address Jenpeg Constructors, Waboden, Manitoba. Project Mgr., G. Ulcher; Project Eng., L. McClure.

General Contracts Division

South Bay Channel – South Bay Constructors, construction of Churchill River Diversion for Manitoba Hydro. Project Manager, K. Cline; Office Manager, A. Litchinsky. P.O. Box 4000, Thompson, Manitoba.

Aquitaine Track Work – Design, manage and construct 27 mile branch rail line and bridge over North Saskatchewan River and bulk sulphur handling facilities for Aquitaine Co. of Canada Ltd. near Rocky Mountain House, Alberta. Project Mgr., D. J. Parry; Office Mgr. M. Mikuska. c/o Calgary Office.

Firestone Plant Extension – Construct extension to the plant, maintenance shop and office building for Firestone Tire & Rubber Company of Canada Ltd. Project Mgr. J. Gayton; Office Mgr., G. O'Neill. Telephone 403-273-6667. P.O. Box 2828, Calgary, Alberta

Projects (Continued)

Mining Division

Great Canadian Oil Sands Overburden Removal – Overburden excavation and tar sand mining for Great Canadian Oil Sands Ltd. Project Mgr. H. Jensen; Office Mgr., V. Sandau. Telephone 743-2401, Telex 037-5210. P.O. Box 750, Fort McMurray, Alta.

Grande Resource Management Ltd. – McEvoy Strip Mining – Overburden removal and coal mining for McIntyre Porcupine Mines Limited, Box 569, Grande Cache, Alberta. Telephone (403) 827-3711. Project Mgr., H. Clarke; Office Mgr., P. Bagger.

Railroad Division

Prince George Track Work – Solecki. Telephone 604-563-4501. 2234 Laurier Crescent, Prince George, B.C.

B. C. Railways Miscellaneous Track Work – Various locations in British Columbia for British Columbia Railways. Project Mgr., W. Solecki, 2235 Laurier Crescent, Prince George, B.C., Telephone (604) 563-4501.

Alberta Railways Miscellaneous Track Work – Various locations in Alberta. Area Manager, F. Zork, 604 Revillon Building, Edmonton, Alberta. Telephone (403) 424-8276.

Pipe Line Division

Westcoast Transmission Company Limited – 1973 Looping Project. Construction of 84.4 miles of 36-inch pipeline consisting of 15 loops between Chiliwack, B.C. and Fort Nelson, B.C. Project Mgr. R.F.C. Marriott; Project Superintendent, J. H. Morrison; Contract Mgr., B. A. Kessler; Office Mgr., S. R. Meadows. Telephone (604) 395-2450, General Delivery, 100 Mile House, B.C.

Associated Companies

Alberta Concrete Products Co. Ltd.

P.O. Box 159, 8635 Stadium Road, Edmonton, Alberta 424-7211 403

Empire Development Co. Ltd.

300 - 9th Avenue S.W., P.O. Box 2550, Calgary, Alberta 267-5333 403

Exploram Minerals Ltd.

1004 - 510 West Hastings Street, Vancouver, B.C. 682-8595 604

C. C. Kamm, President . . . . . 4684 Alpha Drive, North Burnaby, B.C. 287-7856 604

J. L. E. Price & Company Limited

300 - 9th Avenue S.W., P.O. Box 2550, Calgary, Alberta 267-5333 403

Lethbridge Concrete Products Ltd.

9th Avenue and 6th Street North, Lethbridge, Alberta 328-9251 403

Loram Holdings Ltd.

300 - 9th Avenue S.W., P.O. Box 2550, Calgary, Alberta 267-5333 403

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E. J. Panchysyn, Vice-President, Exploration	3835 - 11th Street S.W., Calgary	243-0692	403
G. Chapel, Chief Engineer	35 Clarendon Road N.W., Calgary	282-4879	403
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J. A. McDonald, Project Manager—Onakawana Development	915 - 70th Avenue S.W., Calgary	253-1759	403
R. R. Vennard, Exploration Supt.	1314 Windsor Street N.W., Calgary	282-7942	403
J. T. Wood, Treasurer	339 - 13th Avenue S.W., Calgary	266-3429	403
Highvale Mine Office: P.O. Box 30, Seba Beach, Alberta		**797-3827**	**403**
Klimax Mine Office: Estevan, Saskatchewan		**634-4233**	**306**
Roselyn Mine Office: Sheerness, Alberta		**854-2385**	**403**
Vancouver Office: 521 West 8th Avenue, Vancouver, B.C.		**872-1010**	**604**
Vesta Mine Office: Halkirk, Alberta		**884-2234**	**403**
Whitewood Mine Office: Wabamun, Alberta		**646-2215**	**403**
Utility Mine Office: Estevan, Saskatchewan		**634-3433**	**306**

Utility Coals Ltd.

300 - 9th Avenue S.W., Calgary, Alberta, P.O. Box 2880		**267-5311**	**403**

Great West Sales/Great West Coal Sales

Winnipeg, Manitoba		942-8557	204
Brandon, Manitoba		728-6341	204
Estevan, Saskatchewan		634-4371	306
Calgary, Alberta		267-5366	403
Vancouver, B.C.		872-8171	604

Manalta Holdings Ltd.

301 - 8th Avenue S.W., P.O. Box 2550, Calgary, Alberta		**267-5320**	**403**
F. L. Fenwick, President	13 - 37th Street S.W., Calgary	242-1900	403

Manark Holdings Ltd.

521 West 8th Avenue, Vancouver, B.C.		**872-8171**	**604**
V. Fabri, President	1055 West 46th Avenue, Vancouver	261-6004	604
F. Sheffer, Assistant Manager	2983 Pinnacle Street, Port Coquitlam, B.C.	942-6173	604

Mannix International Inc.

1125A Nathan Lane North, Minneapolis, Minnesota 55441		**545-0411**	**612**
R. A. Peppin, President	4810 East Marie Lane, Minneapolis, Minn. 55422	588-0327	612
E. W. Miller, General Manager	Rte. 1, Box 40, Lansdale, Minn. 55046	887-2659	507
D. J. Lauer, Controller	3416 Shepherd Hills Dr., Minneapolis 55431	831-3883	612
J. T. Wood, Treasurer	339 - 13th Avenue S.W., Calgary	266-3429	403
Canadian Office: 815 - 2nd Street S.W., Calgary, Alberta		**266-7361**	**403**

Mannix Construction Inc. (Maintenance of Way Division)

1125A Nathan Lane North, Minneapolis, Minnesota 55441		**545-0411**	**612**
R. A. Peppin, Vice-President	4810 East Marie Lane, Minneapolis, Minn. 55422	588-0327	612
R. Danko, Chief Engineer	1420 Yosemite Ave. North, Minneapolis, Minn. 55442	545-7942	612
G. A. Shannon, Production Manager	7620 Riverdale Road North, Minneapolis, Minn. 55430	561-3048	612
R. A. Kaselnak, Warehouse Manager	3401 Huntington Ave., St. Louis Park. 55416	926-5641	612
R. F. Mauch, Operations Manager	1125A Nathan Lane North, Minneapolis, Minn. 55441	545-0411	612
J. E. Gavin, Marketing Manager	2345 Troy Lane, Wayzata, Minn. 55391	473-3080	612
R. C. Wahl, Assistant Marketing Manager	10840 County Road 9, Minneapolis, Minn. 55441	537-5150	612

Projects

Mannix Construction Inc., Maintenance of Way Division

Southern Pacific Railroad—Ballast and tie renewal system . . . . . San Francisco
Southern Pacific Railroad—Ballast and tie renewal system . . . . . Houston, Texas
Canadian Pacific Railroad—Winch Cart rental . . . . . Alberta, Canada
Canadian National—Ballast and tie renewal . . . . . Prairie Region, Kamsack, Saskatchewan
Canadian National—Ballast and tie renewal . . . . . St. Lawrence Region, Valleyfield, Quebec
Orinoco Mining—Rail grinding . . . . . Puerto Ordaz, Venezuela
Penn Central—Shoulder ballast cleaning operation . . . . . Columbus. Ohio
Lehigh Valley — Shoulder Ballast Cleaning . . . . . New York State

Pembina Pipe Line Ltd.

300 - 9th Avenue S.W., Calgary, Alberta		**267-5411**	**403**
T. H. France, President	232 Varsity Green Bay N.W., Calgary	283-3211	403
R. N. Sanders, General Manager	2916 Lancaster Way S.W., Calgary	242-3384	403
T. Parks, Manager, Oil and Gas Division	1836 Bayshore Road S.W., Calgary	281-3524	403
W. F. White, Manager, Pipe Line Division	P.O. Box 506, Drayton Valley	542-3267	403
G. E. Thompson, Controller	3240 Conrad Drive N.W., Calgary	289-9423	403
A. V. Comeau, Secretary	511 Wilderness Drive S.E., Calgary	271-6152	403
J. T. Wood, Treasurer	339 - 13th Avenue S.W., Calgary	266-3429	403

Techman Ltd.

310 - 9th Avenue S.W., Calgary, Alberta		**267-5518**	**403**
H. Sonnenberg, General Manager	12319 Lake Moraine Rise S.E., Calgary	271-0252	403
J. G. Bruce, Operations Manager	5416 Lasalle Crescent S.W., Calgary	249-1041	403
R. A. Nemeth, Chief Engineer Pipeline Division	948 Rideau Rd. S.W., Calgary	243-6179	403
J. Turner-Bone, Manager, Buildings, Project & Construction Management	6707 Lepine Court S.W., Calgary	242-7958	403

Projects

Techman Ltd.

TM 6 Administration and management . . . . . The Solids Pipeline Research & Development Association
TM49 Slurry Pipeline Cost Study . . . . . Canadian Transport Commission
TM51 Northern Pipeline Ditching Studies . . . . . Canadian Arctic Gas Study Group
TM58 Alternate Modes of Transport . . . . . Canadian Arctic Gas Study Group
TM60 Freight Rate Study . . . . . Dept. of Industry & Commerce — Alberta
TM73 Mining Scheme . . . . . McIntyre Porcupine Mines
TM74 Mining Scheme . . . . . Coleman Colleries Ltd.
TM75 Shop & Warehouse facilities — General Engineer . . . . . South Bay Constructors
TM81 Office & Plant Design . . . . . Firestone Tire & Rubber Co. Canada
TM82 Feasibility Study . . . . . Alcan Jamaica Limited
TM84 Preliminary East Arctic Pipeline Cost Study . . . . . Transport Development Agency Ministry of Transport

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